

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Kil-hyen RYU et al. Docket: 8021-181 (SS-19649-US)

Serial No.: Unassigned

Filed: Concurrently herewith

For: COMBINED BEAMFORMING-DIVERSITY WIRELESS FADING CHANNEL DEMODULATOR USING ADAPTIVE SUB-ARRAY GROUP ANTENNAS, SIGNAL RECEIVING SYSTEM AND METHOD FOR MOBILE COMMUNICATIONS

Mail Stop Patent Application
Commissioner for Patents
PO Box 1450
Alexandria VA 20231-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

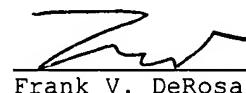
Pursuant to Applicant(s) duty of disclosure, the information listed in the attached form PTO-1449 is brought to the attention of the Examiner. Copies of the listed items are enclosed.

The citation of the listed items is not a representation that they constitute a complete or exhaustive listing of the relevant art or that the references are prior art. The items listed are submitted in good faith, but are not intended to substitute for the Examiner's search. It is hoped,

CERTIFICATION UNDER 37 C.F.R. § 1.10

I hereby certify that his Information Disclosure Statement and the documents referred to as enclosed therein are being deposited with the United States Postal Service on this date November 18, 2003 in an envelope as "Express Mail Post Office to Addressee" Mail Label Number EV 413369268 US addressed to: Commissioner for Patents, PO Box 1450, Alexandria VA 22313-1450.

Dated: 11/18/03


Frank V. DeRosa

however, that in addition to apprising the Examiner of these particular items, they will assist in identifying fields of search and in making as full and complete a search as possible.

The filing of this information disclosure statement is not an admission that the information cited herein is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

[] This information disclosure statement is being filed within three (3) months of the filing date of this application.

[] This information disclosure statement is being filed within three (3) months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application.

[] To the best of Applicant(s) knowledge, this information disclosure statement is being filed before the date of mailing of a first Office Action on the merits in connection with this case.

[] Statement under 37 C.F.R. § 1.97(e):

I hereby state that each item of information contained in this Information Disclosure Statement

was cited in a communication from a foreign patent office in a counterpart foreign application not more than 3 months prior to the filing of this statement.

[] Enclosed herewith is a petition under 37 C.F.R. § 1.97(d)(ii).

[] Enclosed by check is the petition fee of \$130.00. (37 C.F.R. § 1.17(i)(1))

[] Please charge the fee of \$130.00 for petition fee by **Credit Card Payment Form PTO-2038** enclosed herewith.

[] Enclosed by check is the \$180.00 fee required by 37 C.F.R. § 1.17(p) .

[] Please charge the fee of \$180.00 fee required by 37 C.F.R. § 1.17(p) by **Credit Card Payment Form PTO-2038** enclosed herewith.

[X] Please charge any deficiency as well as any other fee(s) which may become due under 37 C.F.R. § 1.16 and/or 1.17 at any time during the pendency of this application, or credit any overpayment of such fee(s) to Deposit Account 50-0679. Also, in the event any extensions of time for responding are required for the pending application(s), please treat this paper as a petition to extend the time as required and charge Deposit Account No. 50-0679 therefor. **TWO (2) COPIES OF THIS SHEET ARE ENCLOSED.**

The claims of the application as now presented are believed to patentably distinguish over the prior art and to be in condition for allowance. Early and favorable consideration of the case is respectfully requested.

Respectfully submitted,

By:



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| Form PTO-1449 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | ATTY. DOCKET NO. 8021-181/mrf (SS-19649-US) | SERIAL NO. Unassigned |
| | | APPLICANT Kil-hyen RYU et al | |
| | | FILING DATE Concurrently herewith | GROUP Art Unit |

U.S. PATENT DOCUMENT

| EXAMINER INITIALS | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|-------------------|--|-----------------|------------|-------------|-------|----------|----------------------------|
| | | 6 4 7 3 0 3 7 | 10/29/2002 | Vail et al. | | | |
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FOREIGN PATENT DOCUMENTS

| | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | |
|----|---------------|-----------------|------|---------|-------|----------|-------------|----|
| | | | | | | | YES | NO |
| WO | 9 8 5 6 0 6 8 | 10/12/1998 | PCT | | | | | X |
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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| | | 1. English Abstract for WO98/56068 |
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| EXAMINER | DATE CONSIDERED |
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])